ST-EX10

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set the tuner section in
MHC-EX5, EX7, EX9AV, EX10AV.

SPECIFICATIONS

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
East European model :
FM1 : 65-74MHz
FM2 : 87.5-108MHz
EXCEPT East European model : 87.5 – 108.0 MHz
(50kHz step)
Antenna terminals 75 ohm unbalanced
Intermediate frequency
10.7 MHz

AM tuner section

Tuning range
AEP, UK, East European, German model :
MW : 531-1,602kHz
LW : 153-279kHz
Italian model :
MW : 522-1,611kHz (9kHz step)
LW : 153-279kHz
E, Saudi Arabia, Hong Kong, Mexican, Malaysia, Singapore, Australian, Tourist model :
MW : 531-1,602kHz (9kHz step)
530-1,710kHz (10kHz step)
SW : 5.95-17.9kHz
(E3, Saudi Arabia, Hong Kong, Malaysia, Singapore, Tourist model)
Aerial AM loop aerial
External aerial terminals
Intermediate frequency
450 kHz

Dimensions
Approx. 280 x 85 x 290 mm (w/h/d)
(11 1/8 x 3 3/8 x 11 1/2 inches)
Mass Approx. 1.6 kg (3 lb 9 oz)

STEREO TUNER

SONY®

TABLE OF CONTENTS

Section *Title* *Page*

1. GENERAL ····· 2
2. ELECTRICAL ADJUSTMENTS ····· 3
3. EXPLANATION OF IC TERMINALS ····· 5
4. DIAGRAMS
   - 4-1. Block Diagram ····· 7
   - 4-2. Printed Wiring Boards ····· 12
   - 4-3. Schematic Diagram ····· 15
5. EXPLODED VIEWS ····· 21
6. ELECTRICAL PARTS LIST ····· 22

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTE

• POWER SUPPLIED WHILE SERVICING

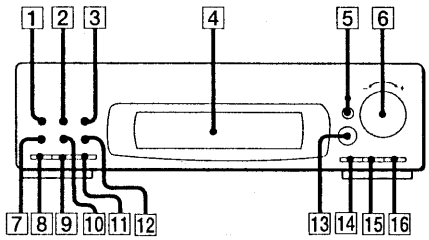
This unit does not work independently because of not having the power supply.
It must be unite together with the other units when repaired.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Front Panel

Tuner



1 EON (Enhanced Other Networks) button
2 PTY (Programme Type) button
(AEP, UK, German, Italian, East European model)

1 MEMORY button
2 STEREO/MONO button
(Australian, E, Saudi Arabia, Mexican, Malaysia, Singapore, Hong Kong, Tourist, CIS model)

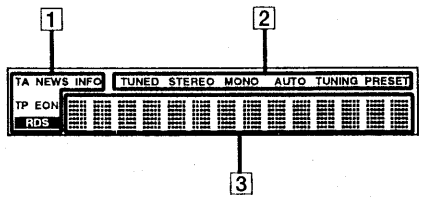
3 DISPLAY button
4 Display window button
5 ENTER/NEXT button
6 MULTI CONTROLLER
7 DAILY button
8 TIMER SET button
9 CLOCK SET button
10 REC button
11 CHARACTER button
12 SLEEP button
13 BAND button

14 STEREO/MONO button
15 TUNING MODE button
16 MEMORY button
(AEP, UK, German, Italian, East European model)

14 MANUAL button (TUNING MODE)
15 AUTO button (TUNING MODE)
16 PRESET button (TUNING MODE)
(Australian, E, Saudi Arabia, Mexican, Malaysia, Singapore, Hong Kong, Tourist, CIS model)

Display Window

Tuner



1 RDS service indications
2 Tuner indication
3 Frequency/station name/time/timer indication

SECTION 2
ELECTRICAL ADJUSTMENTS

Precautions in Repairing

If the front unit fails, it is difficult to repair the inner circuits, so replace the entire front end unit.

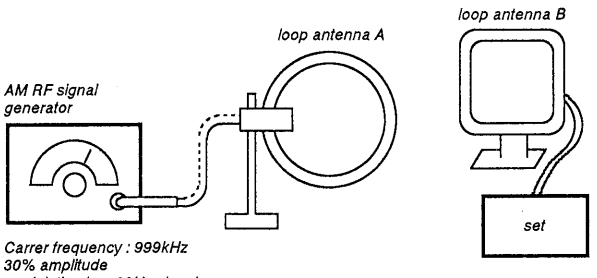
The FM TUNED level must be adjusted after the AM TUNED level adjustment has completed.

AM SECTION

AM Tuning Level Adjustment

Setting :

BAND switch : MW (AM)



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dBμ/m .
2. Tune the set to 999kHz.
3. Adjust RV1 so that the TUNED indicator goes on.

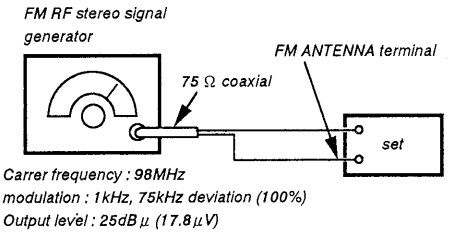
Adjustment Location : MAIN board. (See page 4)

FM SECTION

FM Tuning Level Adjustment

Setting :

BAND switch : FM



Procedure :

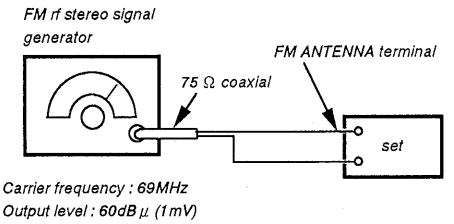
1. Tune the set to 98MHz.
2. Adjust RV2 so that the TUNED indicator goes on.

Adjustment Location : MAIN board. (See page 4)

FM POLAR Adjustment (CIS model only)

Setting :

BAND switch : FM



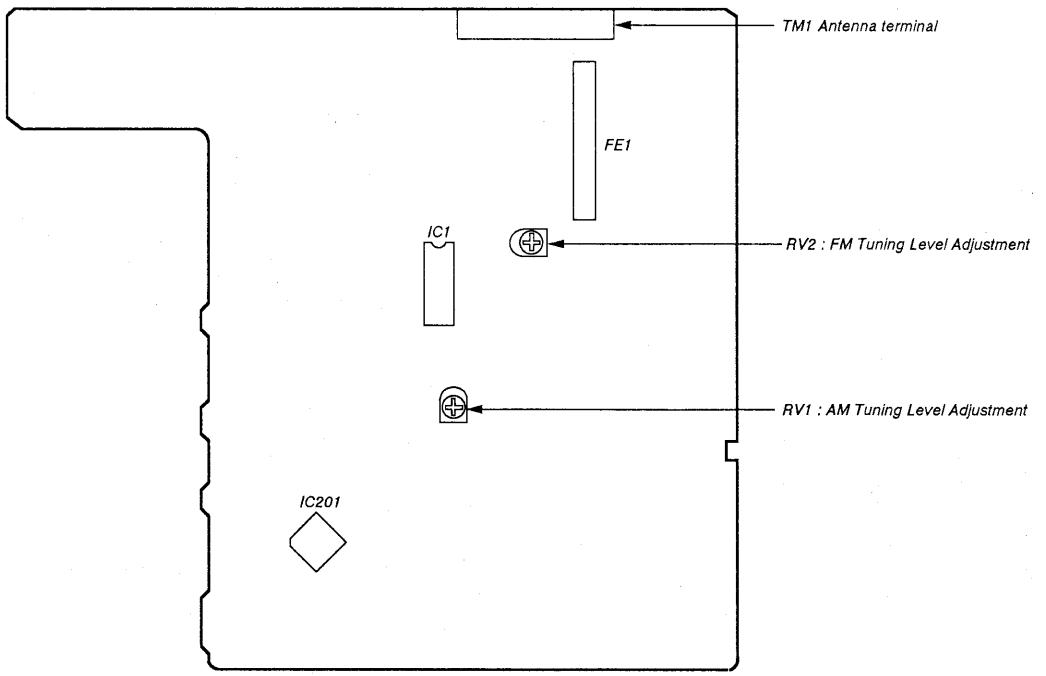
Procedure :

1. Connect the frequency counter to the TP1702 and adjust the RV1702 for a frequency of 31.25kHz ± 50Hz.
2. Connect the VTVM to the TP1701, receive the signal of 69MHz ± 1kHz (1kHz dev.) and adjust the reading of the VTVM to 0dB.
3. Set the modulation frequency of the FM RF signal generator to 31.25kHz (10kHz dev.) and adjust the L1701 and CT1701 so that the reading of the VTVM is 0dB.
4. Adjust the RV1701 so that the reading of the VTVM to 14dB.
5. Check that the separation between pins 13 and 11 of the CN1701 is more than 18dB.

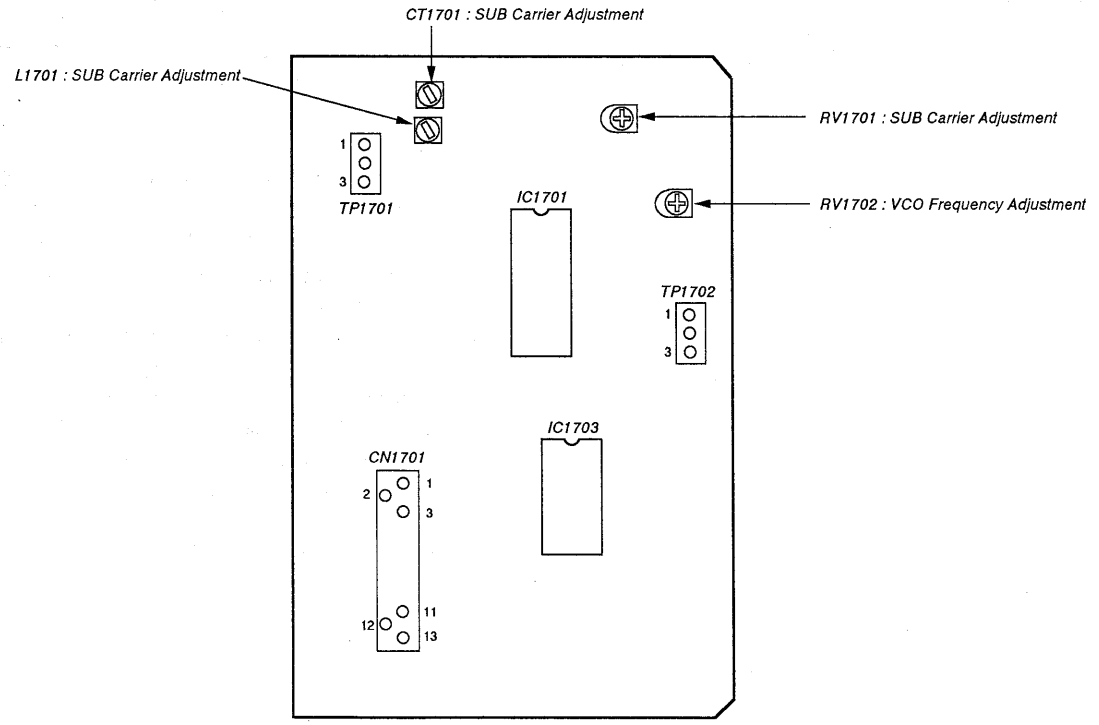
Adjustment Location : POLAR board. (See page 4)

Adjustment Location :

【MAIN BOARD 】 – Component side –



【POLAR BOARD 】 – Component side –



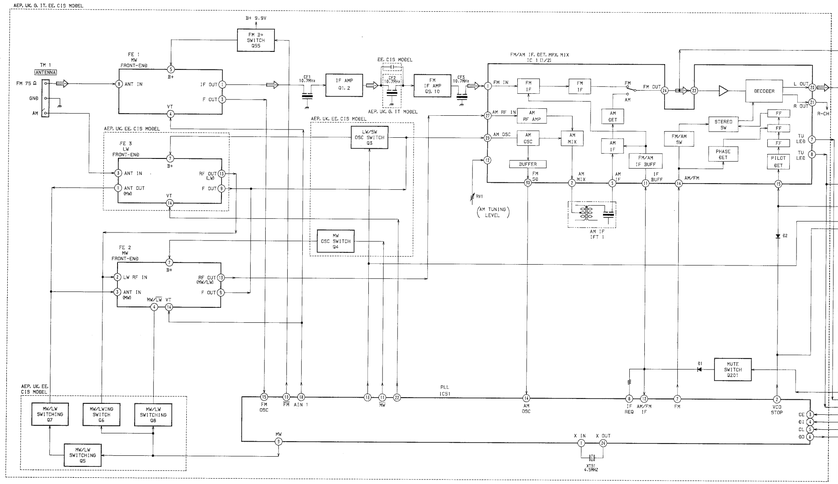
SECTION 3
EXPLANATION OF IC TERMINALS

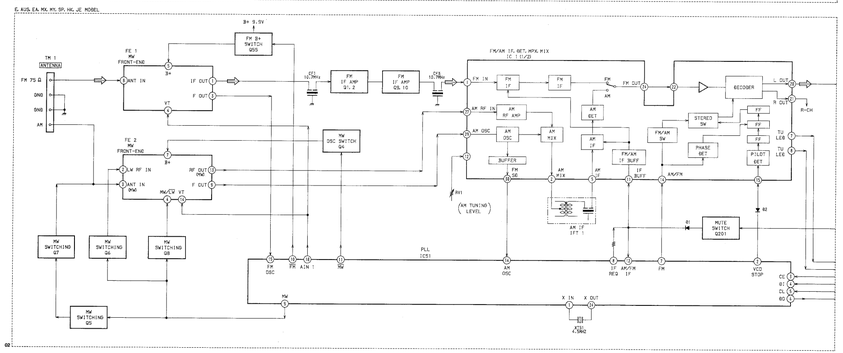
IC201 μPD78013GC

Pin No.	Pin name	I/O	Description
1 – 4	MODEL	I	Model selection.
5	IF+50	I	Not used. (GND connected)
6	IF – 50	O	Not used. (GND connected)
7	BACK UP	I	Back up mode input terminal.
8	NC	–	Not used.
9	V_{SS}	–	Power supply (GND).
10	$\overline{POWER}$	O	Power ON/OFF control.
11	MUTE	O	Mute signal output terminal.
12	ANLOG BUS	–	Since it is not used.
13	NC	–	Not used. (Open)
14	NC	–	Not used. (Open)
15	AM MONO	–	Since it is not used.
16	AM/FM	–	Since it is not used.
17	IFNG	–	Since it is not used.
18	STEREO	I	FM/AM stereo identification. L : Stereo
19	SIGNAL	I	FM/AM tuning identification. L : Tuning
20	DATA IN	I	Serial data input from tuner. (PLL IC)
21	DATA OUT	O	Serial data output to tuner. (PLL IC)
22	CLOCK	O	System clock output to tuner. (PLL IC)
23	CE	O	Chip enable output to tuner. (PLL IC)
24	V_{SS}	–	Power supply. (GND)
25	NC	–	Not used. (Open)
26	NC	–	Not used. (Open)
27	ONCE	O	Once LED drive. (Since it is not used)
28	DAILY	O	Daily LED drive.
29	REC	O	REC LED drive.
30	SLEEP	O	Sleep LED drive.
31	ENCODER	O	Encoder LED drive.
32	NEXT	O	Next LED drive.
33	ENCODER IN B	I	Encoder B input terminal.
34	AU BUS OUT	O	Audio bus output terminal.
35	RESET	I	Reset terminal.
36	AU BUS IN	I	Audio bus input terminal.
37	EMCODER IN A	I	Encoder A input termihal.
38	RDS-CLOCK	I	RDS clock input termihal.
39	RDS-DATA	I	RDS data input termihal.
40	V_{DD}	–	Power supply. (+5V)
41	X2	O	System main clock. (10MHz)
42	X1	I	System main clock. (10MHz)
43	GND	–	Power supply. (GND)
44	XT2	O	System sub clock. (32.768kHz)
45	XT1	I	System sub clock. (32.768kHz)

Pin No.	Pin name	I/O	Description
46	GND	–	Power supply. (GND)
47	KEY IN K1	I	Key input terminal.
48	KEY IN K2	I	Key input terminal.
49	KEY IN	I	Key input terminal. (Since it is not used, it is +5V connected)
50	GND	–	Power supply. (GND)
51	GND	–	Power supply. (GND)
52	GND	–	Power supply. (GND)
53	GND	–	Power supply. (GND)
54	GND	–	Power supply. (GND)
55	AV_{DD}	–	Analog power supply. (+5V)
56	AV_{REF}	–	Analog reference voltage terminal.
57	GND	–	Analog power supply. (GND)
58	S DATA	O	Serial data output to FL DRIVER. (M66004FP)
59	SCK	O	System clock output to FL DRIVER. (M66004FP)
60	$\overline{CS}$	O	Serial Chip select output to FL DRIVER. (M66004FP)
61	RESET	O	Reset signal output to FL DRIVER. (M66004FP)
62	ERRORS	I	Serial data input terminal.
63	CORRECTION	O	Serial data output terminal.
64	RECEIVED	O	System clock output terminal.

4-1. BLOCK DIAGRAM





- Signal path.
  ⇨ : FM
- Abbreviation

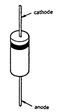
EE	: East European	EA	: Saudi Arabia
JE	: Tourist	MX	: Mexican
IT	: Italian	MY	: Malaysia
G	: German	SP	: Singapore
AUS	: Australian	HK	: Hong Kong

● SEMICONDUCTOR LEAD LAYOUTS

DTA114ES
DTC114ES
2SC2603-EF
2SC2669-OY

2SK246-GR3

UZP-4.7B

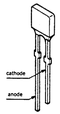


UN4111
2SA1175-HFE

LETTER SIDE

HZS7B3L
UZL-6L3
UZL-7M1-TA
UZL-27H
11ES2

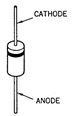
SEL5420E-TP15



TLO124

2SB1094-LK
2SD2012

UZL-11M1-TA
1N4148M
1SS1585



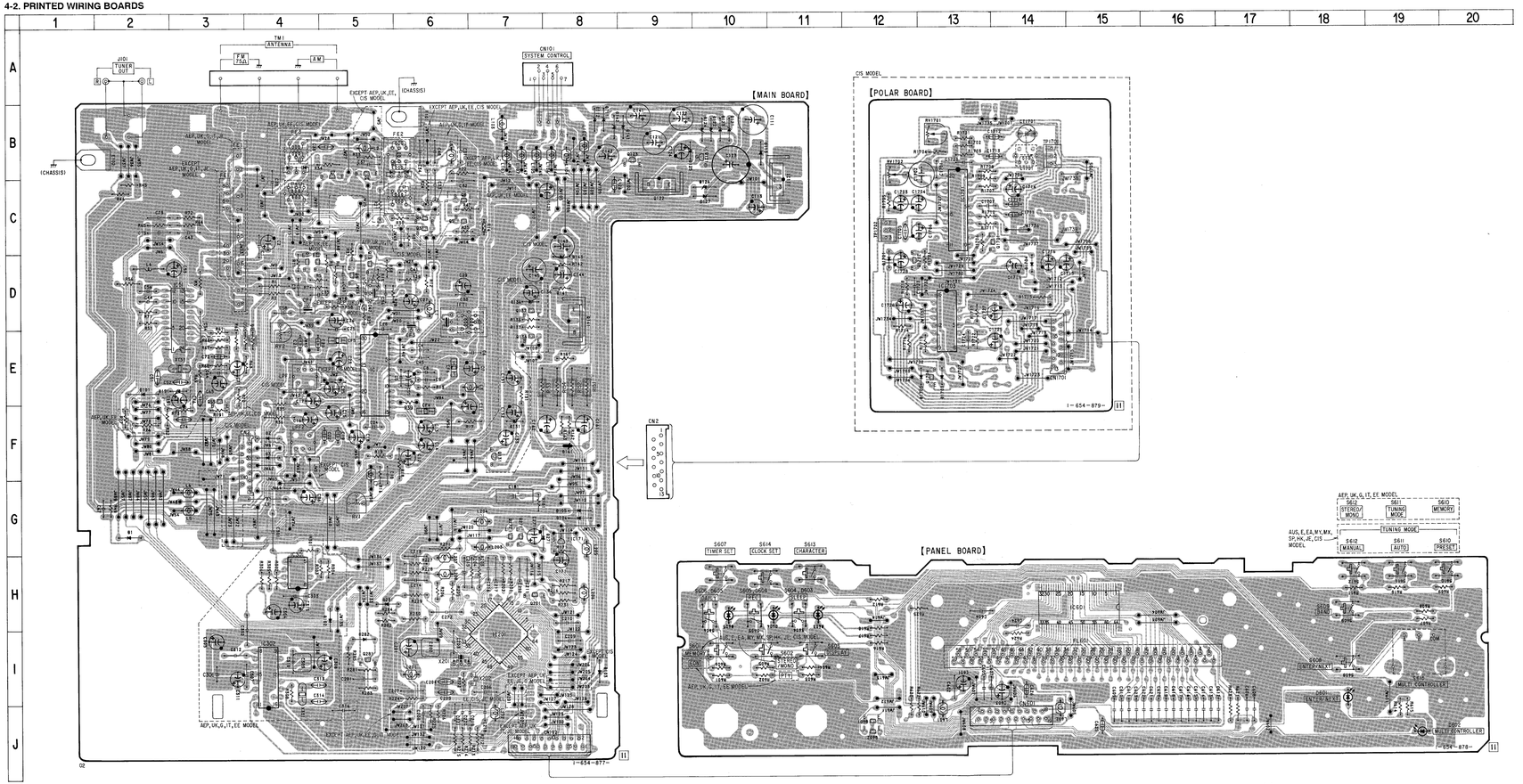
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D1	G-1	IC171	G-8
D2	F-4	IC201	I-7
D3	F-4	IC301	H-4
D101	E-2	IC302	I-4
D102	H-5	IC601	H-15
D103	I-8	IC1701	C-13
D104	G-8	IC1703	D-13
D105	G-8		
D111	B-8		
D112	B-8	Q1	D-4
		Q2	D-4
D113	B-10	Q3	C-6
D121	B-10	Q4	C-6
D122	B-10	Q5	C-6
D123	B-10		
D124	B-10	Q6	B-5
		Q7	B-5
D125	B-9	Q8	C-6
D126	C-10	Q9	D-5
D127	C-10	Q10	D-5
D131	F-7		
D138	D-7	Q55	E-3
		Q121	B-10
D141	B-9	Q122	C-9
D142	B-8	Q123	B-9
D143	D-8	Q131	F-7
D161	F-8		
D191	E-3	Q138	E-7
		Q137	D-7
D271	G-7	Q141	D-8
D281	H-5	Q201	H-7
D282	I-5	Q271	G-7
D601	I-18		
D602	J-19	Q272	G-7
		Q281	I-5
D603	H-11	Q601	J-12
D604	H-11	Q602	J-12
D605	H-10	Q1701	C-14
D1701	D-12		
D1703	E-13	Q1702	D-12
		Q1704	E-13
D1704	D-14		
D1705	E-13		
IC1	E-5		
IC51	D-3		
IC111	C-11		

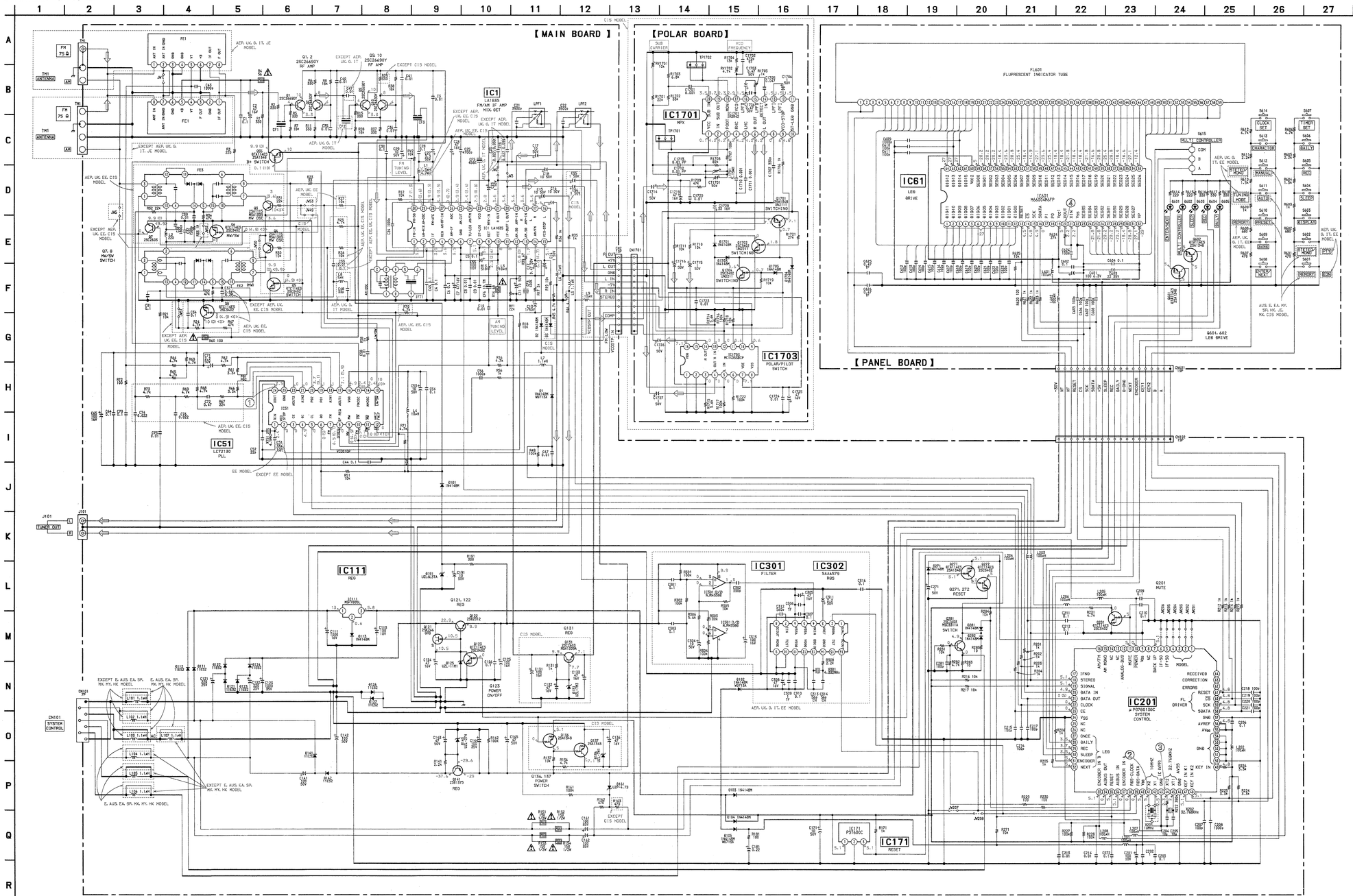
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - EE : East European
  - JE : Tourist
  - IT : Italian
  - G : German
  - AUS : Australian
  - EA : Saudi Arabia
  - MX : Mexican
  - MY : Malaysia
  - SP : Singapore
  - HK : Hong Kong

4-2. PRINTED WIRING BOARDS

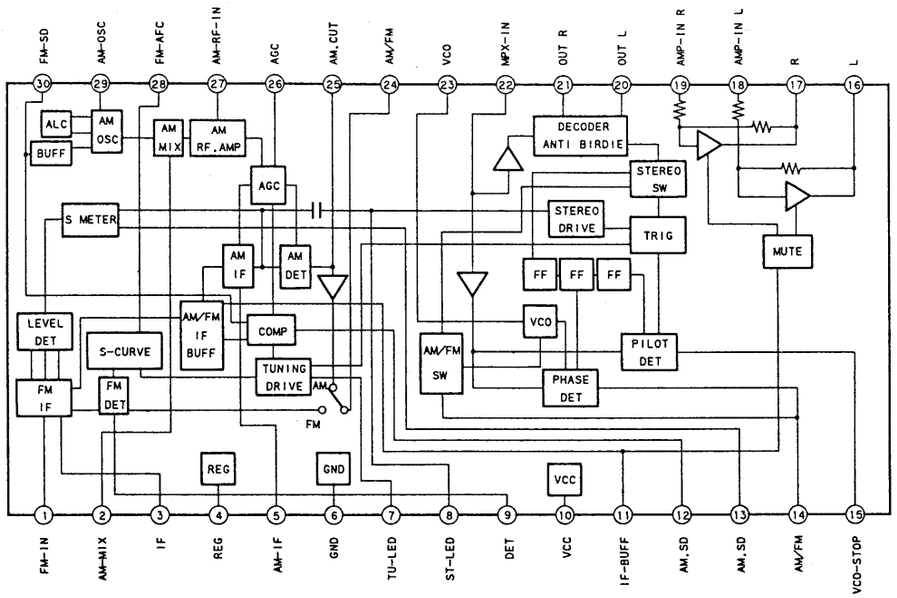


4-3. SCHEMATIC DIAGRAM

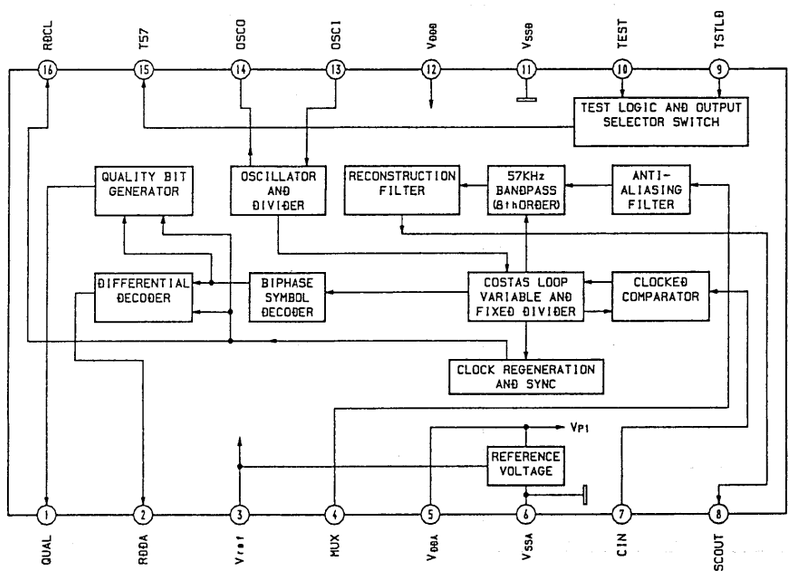


• IC BLOCK DIAGRAMS

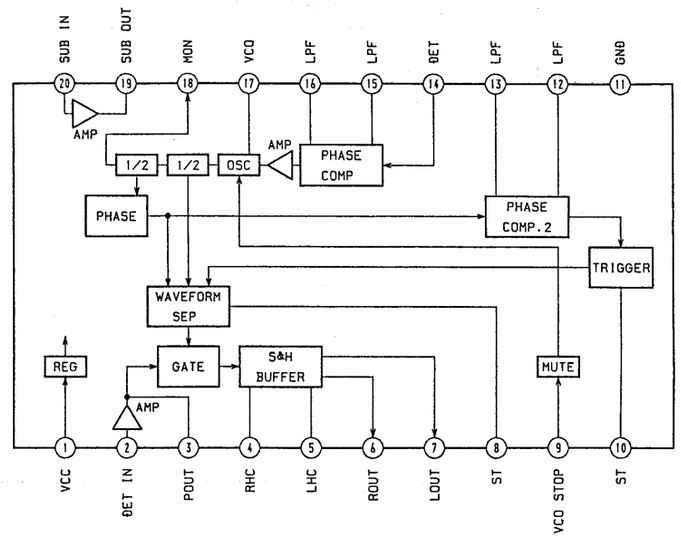
IC1 LA1835



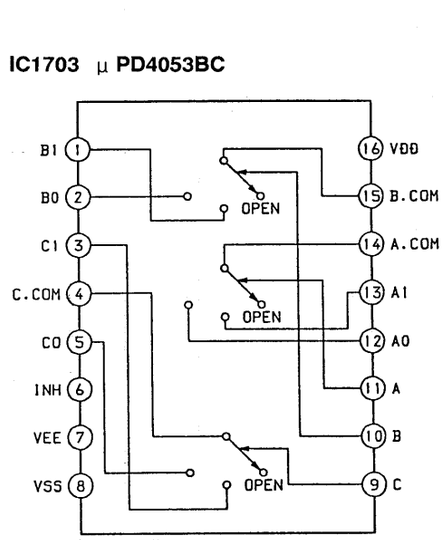
IC302 SAA6579



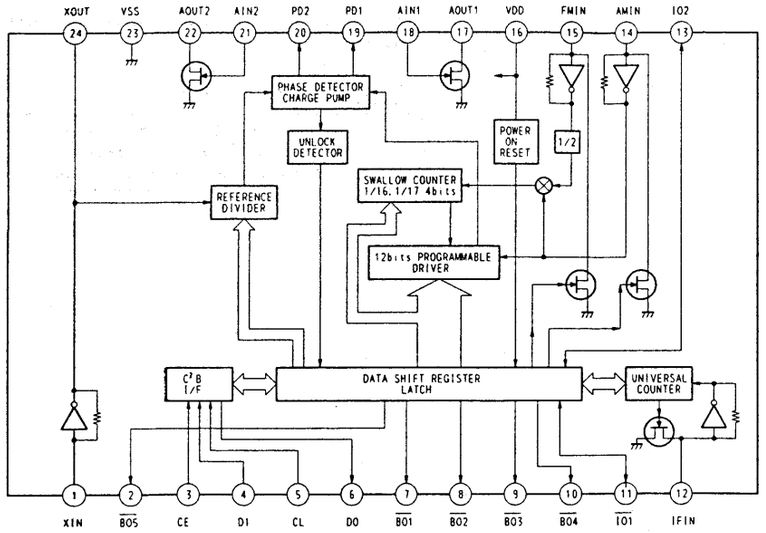
IC1701 IR3R42



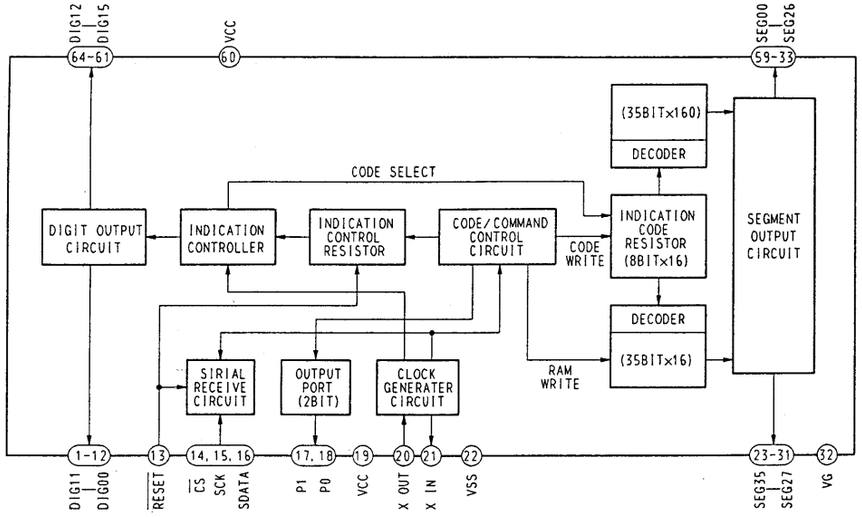
IC1703 μ PD4053BC



IC51 LC72130



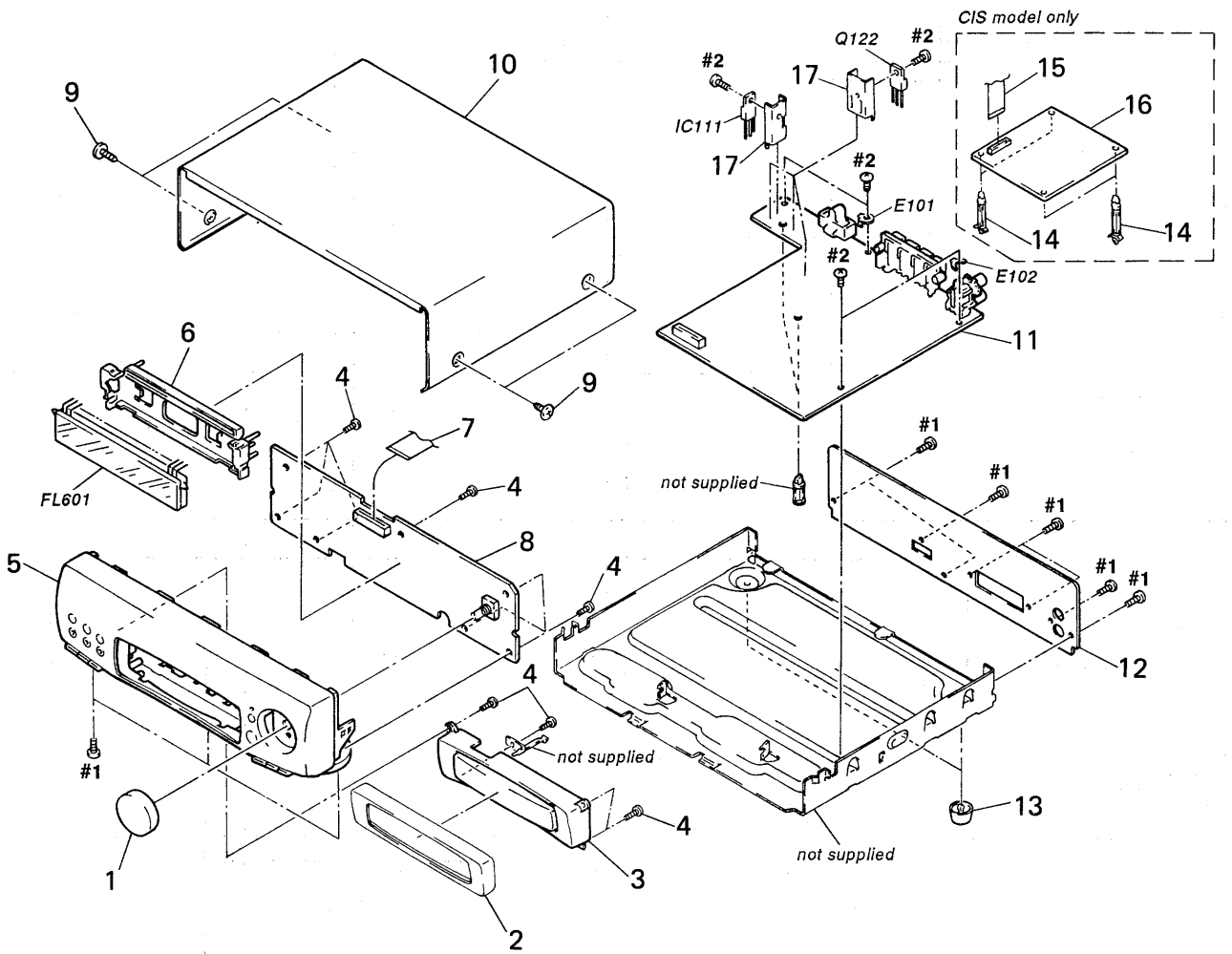
IC601 M66004M6FP



SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  - EE : East European
  - JE : Tourist
  - IT : Italian
  - G : German
  - AUS : Australian
  - EA : Saudi Arabia
  - MX : Mexican
  - MY : Malaysia
  - SP : Singapore
  - HK : Hong Kong



Ref. No.	Part No.	Description	Remark
1	4-970-782-11	KNOB (JOG)	
2	4-970-932-01	PLATE (ST/CD), ORNAMENTAL	
3	4-970-785-01	WINDOW (FL)	
4	4-951-620-01	SCREW (2.6×8), +BVTP	
5	X-4945-419-1	PANEL ASSY, FRONT (AEP, UK, G, IT, EE)	
5	X-4945-429-1	PANEL ASSY, FRONT (E, AUS, EA, MX, MY, SP, HK, JE, CIS)	
* 6	4-970-787-11	HOLDER (FL)	
7	1-765-242-31	WIRE (FLAT TYPE) (19 CORE)	
* 8	A-4377-038-A	PANEL BOARD, COMPLETE	
9	3-363-099-01	SCREW (CASE 3 TP2)	
10	4-970-927-21	CASE	
* 11	A-4377-031-A	MAIN BOARD, COMPLETE (G)	
* 11	A-4377-032-A	MAIN BOARD, COMPLETE (IT)	
* 11	A-4377-033-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 11	A-4377-034-A	MAIN BOARD, COMPLETE (EE)	
* 11	A-4377-035-A	MAIN BOARD, COMPLETE (CIS)	
* 11	A-4377-036-A	MAIN BOARD, COMPLETE (E, AUS, EA, MX, MY, SP, HK)	
* 11	A-4377-844-A	MAIN BOARD, COMPLETE (JE)	
* 12	4-970-786-11	PANEL, BACK (AEP, UK, G, IT, EE, CIS)	
* 12	4-970-786-21	PANEL, BACK (E, AUS, EA, MX, MY, SP, HK, JE)	
13	4-965-822-01	FOOT	
* 14	4-924-098-91	HOLDER, PC BOARD (CIS)	
15	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
16	A-4369-349-A	POLAR BOARD, COMPLETE (CIS)	
* 17	3-309-144-21	HEAT SINK	
E101	1-537-770-11	TERMINAL BOARD, GROUND	
E102	1-537-770-11	TERMINAL BOARD, GROUND	
FL601	1-517-368-11	INDICATOR TUBE, FLUORESCENT	

SECTION 6
ELECTRICAL PARTS LIST

MAIN

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation

EE	: East European	EA	: Saudi Arabia
JE	: Tourist	MX	: Mexican
IT	: Italian	MY	: Malaysia
G	: German	SP	: Singapore
AUS	: Australian	HK	: Hong Kong

Ref. No.	Part No.	Description			Remark
*	A-4377-031-A	MAIN BOARD, COMPLETE (G)			
*	A-4377-032-A	MAIN BOARD, COMPLETE (IT)			
*	A-4377-033-A	MAIN BOARD, COMPLETE (AEP, UK)			
*	A-4377-034-A	MAIN BOARD, COMPLETE (EE)			
*	A-4377-035-A	MAIN BOARD, COMPLETE (CIS)			
*	A-4377-036-A	MAIN BOARD, COMPLETE			(E, AUS, EA, MX, MY, SP, HK)
*	A-4377-844-A	MAIN BOARD, COMPLETE (JE)			
		**********			
		< CAPACITOR >			
C1	1-164-159-11	CERAMIC	0.1uF		50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-162-306-11	CERAMIC	0.01uF	30%	16V
C4	1-164-159-11	CERAMIC	0.1uF		50V
C5	1-164-159-11	CERAMIC	0.1uF		50V
C6	1-164-159-11	CERAMIC	0.1uF		50V
C7	1-126-967-11	ELECT	47uF	20%	16V
C8	1-162-306-11	CERAMIC	0.01uF	30%	16V
C9	1-162-306-11	CERAMIC	0.01uF	30%	16V
C10	1-162-306-11	CERAMIC	0.01uF	30%	16V
C11	1-126-964-11	ELECT	10uF	20%	50V
C12	1-124-902-00	ELECT	0.47uF	20%	50V
C13	1-124-903-11	ELECT	1uF	20%	50V
C14	1-124-903-11	ELECT	1uF	20%	50V
C15	1-126-964-11	ELECT	10uF	20%	50V
C16	1-126-964-11	ELECT	10uF	20%	50V
C17	1-126-964-11	ELECT	10uF	20%	50V
C18	1-126-964-11	ELECT	10uF	20%	50V
C19	1-136-160-00	FILM	0.039uF	5%	50V (AEP, UK, G, IT)
C19	1-136-158-00	FILM	0.027uF	5%	50V (E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)
C20	1-136-160-00	FILM	0.039uF	5%	50V (AEP, UK, G, IT)
C20	1-136-158-00	FILM	0.027uF	5%	50V (E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)
C21	1-137-436-11	FILM	0.0039uF	5%	50V
C22	1-137-436-11	FILM	0.0039uF	5%	50V
C23	1-124-903-11	ELECT	1uF	20%	50V
C24	1-162-294-31	CERAMIC	0.001uF	10%	50V
C25	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C26	1-126-967-11	ELECT	47uF	20%	16V
C27	1-126-111-11	ELECT	3.3uF	20%	50V
C28	1-164-159-11	CERAMIC	0.1uF		50V
C29	1-126-964-11	ELECT	10uF	20%	50V
C30	1-164-159-11	CERAMIC	0.1uF		50V
C31	1-164-159-11	CERAMIC	0.1uF		50V
C32	1-162-196-31	CERAMIC	5.6PF	10%	50V (AEP, UK, EE, CIS)
C32	1-162-198-31	CERAMIC	8.2PF	10%	50V (G, IT, E, AUS, EA, MX, MY, SP, HK, JE)
C33	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, UK, EE, CIS)
C33	1-164-159-11	CERAMIC	0.1uF		50V (G, IT, E, AUS, EA, MX, MY, SP, HK, JE)
C34	1-164-159-11	CERAMIC	0.1uF		50V (AEP, UK, EE, CIS)
C35	1-162-306-11	CERAMIC	0.01uF	30%	16V
C36	1-162-306-11	CERAMIC	0.01uF	30%	16V
C37	1-162-301-11	CERAMIC	0.0015uF	30%	16V (AEP, UK, EE, CIS)
C38	1-102-120-00	CERAMIC	0.0018uF	10%	50V (AEP, UK, EE, CIS)
C39	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP, UK, EE, CIS)
C40	1-162-306-11	CERAMIC	0.01uF	30%	16V
C41	1-162-306-11	CERAMIC	0.01uF	30%	16V
C43	1-162-294-31	CERAMIC	0.001uF	10%	50V
C44	1-164-159-11	CERAMIC	0.1uF		50V
C45	1-164-159-11	CERAMIC	0.1uF		50V

MAIN

Ref. No.	Part No.	Description				Remark
C47	1-164-095-11	CERAMIC	0.01uF	10%	16V	(EXCEPT AEP, UK, G, IT)
C48	1-162-211-31	CERAMIC	33PF	5%	50V	(AEP, UK, G, IT)
C51	1-164-031-11	CERAMIC	33PF	5%	50V	(EXCEPT EE)
C51	1-164-019-11	CERAMIC	10PF	0.5PF	50V	(EE)
C52	1-164-027-11	CERAMIC	22PF	5%	50V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-164-159-11	CERAMIC	0.1uF		50V	
C55	1-126-933-11	ELECT	100uF	20%	10V	
C56	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C58	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C64	1-164-159-11	CERAMIC	0.1uF		50V	
C65	1-126-933-11	ELECT	100uF	20%	16V	
C67	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C71	1-124-925-11	ELECT	2.2uF	20%	100V	
C72	1-136-173-00	FILM	0.47uF	5%	50V	(AEP, UK, EE, CIS)
C73	1-164-159-11	CERAMIC	0.1uF		50V	
C74	1-164-097-11	CERAMIC	0.022uF		50V	(AEP, UK, EE, CIS)
C75	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C76	1-164-097-11	CERAMIC	0.022uF		50V	(AEP, UK, EE, CIS)
C95	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C96	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C111	1-126-952-11	ELECT	1000uF	20%	16V	
C113	1-126-933-11	ELECT	100uF	20%	10V	
C121	1-104-666-11	ELECT	220uF	20%	25V	
C122	1-104-666-11	ELECT	220uF	20%	25V	
C123	1-126-952-11	ELECT	1000uF	20%	35V	
C124	1-126-967-11	ELECT	47uF	20%	16V	
C125	1-126-933-11	ELECT	100uF	20%	16V	
C126	1-136-165-00	FILM	0.1uF	5%	50V	
C131	1-126-933-11	ELECT	100uF	20%	16V	(CIS)
C132	1-126-967-11	ELECT	47uF	20%	16V	(CIS)
C133	1-126-967-11	ELECT	47uF	20%	16V	(CIS)
C136	1-126-803-11	ELECT	47uF	20%	10V	(CIS)
C141	1-124-122-11	ELECT	100uF	20%	50V	
C142	1-124-122-11	ELECT	100uF	20%	50V	
C143	1-126-967-11	ELECT	47uF	20%	50V	
C144	1-126-948-11	ELECT	100uF	20%	35V	
C145	1-126-967-11	ELECT	47uF	20%	50V	
C161	1-126-948-11	ELECT	100uF	20%	35V	
C162	1-126-948-11	ELECT	100uF	20%	35V	
C171	1-126-964-11	ELECT	10uF	20%	50V	
C181	1-125-705-11	CAP, DOUBLE LAYERS			0.22F	
C191	1-126-964-11	ELECT	10uF	20%	50V	
C201	1-126-933-11	ELECT	100uF	20%	10V	

Ref. No.	Part No.	Description				Remark
C202	1-136-177-00	FILM	1uF	5%	50V	
C203	1-164-159-11	CERAMIC	0.1uF		50V	
C204	1-164-025-51	CERAMIC	18PF	5%	50V	
C205	1-164-025-51	CERAMIC	18PF	5%	50V	
C206	1-164-159-11	CERAMIC	0.1uF		50V	
C207	1-162-282-31	CERAMIC	100PF	10%	50V	
C208	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C209	1-164-159-11	CERAMIC	0.1uF		50V	
C210	1-164-159-11	CERAMIC	0.1uF		50V	
C211	1-164-159-11	CERAMIC	0.1uF		50V	
C212	1-164-159-11	CERAMIC	0.1uF		50V	
C213	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C214	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C215	1-162-282-31	CERAMIC	100PF	10%	50V	
C216	1-162-282-31	CERAMIC	100PF	10%	50V	
C217	1-162-282-31	CERAMIC	100PF	10%	50V	
C218	1-162-282-31	CERAMIC	100PF	10%	50V	
C219	1-162-282-31	CERAMIC	100PF	10%	50V	
C220	1-162-282-31	CERAMIC	100PF	10%	50V	
C221	1-162-282-31	CERAMIC	100PF	10%	50V	
C271	1-124-903-11	ELECT	1uF	20%	50V	
C272	1-164-159-11	CERAMIC	0.1uF		50V	
C281	1-162-282-31	CERAMIC	100PF	10%	50V	
C301	1-164-159-11	CERAMIC	0.1uF		50V	(AEP, UK, G, IT, EE)
C302	1-162-288-31	CERAMIC	330PF	10%	50V	(AEP, UK, G, IT, EE)
C303	1-164-159-11	CERAMIC	0.1uF		50V	(AEP, UK, G, IT, EE)
C304	1-126-964-11	ELECT	10uF	20%	50V	(AEP, UK, G, IT, EE)
C305	1-126-967-11	ELECT	47uF	20%	16V	(AEP, UK, G, IT, EE)
C306	1-136-177-00	FILM	1uF	5%	50V	(AEP, UK, G, IT, EE)
C307	1-164-159-11	CERAMIC	0.1uF		50V	(AEP, UK, G, IT, EE)
C308	1-126-967-11	ELECT	47uF	20%	16V	(AEP, UK, G, IT, EE)
C309	1-136-177-00	FILM	1uF	5%	50V	(AEP, UK, G, IT, EE)
C310	1-164-159-11	CERAMIC	0.1uF		50V	(AEP, UK, G, IT, EE)
C311	1-124-925-11	ELECT	2.2uF	20%	100V	(AEP, UK, G, IT, EE)
C312	1-162-291-31	CERAMIC	560PF	10%	50V	(AEP, UK, G, IT, EE)
C313	1-101-884-00	CERAMIC	56PF	5%	50V	(AEP, UK, G, IT, EE)
C314	1-101-884-00	CERAMIC	56PF	5%	50V	(AEP, UK, G, IT, EE)

MAIN

Ref. No.	Part No.	Description			Remark
C315	1-126-933-11	ELECT	100uF	20%	16V (AEP, UK, G, IT, EE)
C316	1-164-159-11	CERAMIC	0.1uF		50V (AEP, UK, G, IT, EE)
C621	1-162-282-31	CERAMIC	100PF	10%	50V
		< FILTER >			
CF1	1-579-374-71	FILTER, CERAMIC (AEP, UK, G, IT)			
CF1	1-567-389-11	FILTER, CERAMIC (E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)			
CF2	1-760-393-11	FILTER, CERAMIC (AEP, UK, G, IT)			
CF3	1-760-393-11	FILTER, CERAMIC (AEP, UK, G, IT)			
CF3	1-567-389-11	FILTER, CERAMIC (E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)			
CF4	1-527-981-00	FILTER, CERAMIC			
CF5	1-577-075-11	OSCILLATOR, CERAMIC			
CF6	1-760-220-21	FILTER, CERAMIC			
		< CONNECTOR >			
CN101	1-770-158-41	SOCKET, CONNECTOR 7P			
CN102	1-568-802-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D1	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D1	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D2	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D2	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D3	8-719-987-63	DIODE	1N4148M (CIS)		
D101	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D101	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D102	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D102	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D103	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D103	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D104	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D104	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D105	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D105	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D111	8-719-200-82	DIODE	11ES2		
D112	8-719-200-82	DIODE	11ES2		
D113	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS		
D113	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D121	8-719-200-82	DIODE	11ES2		
D122	8-719-200-82	DIODE	11ES2		
D123	8-719-200-82	DIODE	11ES2		
D124	8-719-200-82	DIODE	11ES2		
D125	8-719-001-43	DIODE	UZL-11M1-TA		
D126	8-719-200-82	DIODE	11ES2		
D127	8-719-200-82	DIODE	11ES2		
D131	8-719-933-48	DIODE	HZS7B3L (CIS)		
D136	8-719-000-85	DIODE	UZL-7M1-TA (CIS)		
D141	8-719-200-82	DIODE	11ES2		
D142	8-719-200-82	DIODE	11ES2		
D143	8-719-002-48	DIODE	UZL-27H		
D161	8-719-014-48	DIODE	UZP-4.7B		
D191	8-719-000-54	DIODE	UZL-6L3		
D271	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D271	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D281	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D281	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
D282	8-719-987-63	DIODE	1N4148M (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)		
D282	8-719-815-85	DIODE	1S1585 (AEP:Made in France, UK, IT, G)		
		< FRONT END >			
FE1	1-693-253-21	FRONT END (4 GANG) (AEP, UK, G, IT)			
FE1	1-693-090-51	FRONT END (FM) (2 GANG) (E, AUS, EA, MX, MY, SP, HK)			
FE1	1-693-244-21	FRONT END (3 GANG) (EE, CIS)			
FE1	1-693-251-11	FRONT END (JE)			
FE2	1-239-261-12	ENCAPSULATED COMPONENT (AEP, UK, EE, CIS)			
FE2	1-239-634-11	ENCAPSULATED COMPONENT, AM. RF (G, IT, E, AUS, EA, MX, MY, SP, HK, JE)			
FE3	1-236-463-11	ENCAPSULATED COMPONENT (AEP, UK, EE, CIS)			
		< IC >			
IC1	8-759-176-03	IC	LA1835		
IC51	8-759-288-54	IC	LC72130		
IC111	8-759-231-53	IC	TA7805S		
IC171	8-759-165-80	IC	PST600C-T		
IC201	8-759-338-81	IC	uPD78013GC-652-AB8		

Ref. No.	Part No.	Description	Remark
IC301	8-759-634-51	IC M5218AP (AEP, UK, G, IT, EE)	
IC302	8-759-169-99	IC SAA6579 (AEP, UK, G, IT, EE)	
IC601	8-759-261-63	IC M66004M6FP	
		< IFT >	
IFT1	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JACK >	
J101	1-770-272-11	JACK, PIN 2P (TUNER OUT)	
		< COIL >	
L1	1-407-500-00	INDUCTOR 4.7mH (AEP, UK, EE, CIS)	
L1	1-410-688-31	INDUCTOR 1.5mH (G, IT, E, AUS, EA, MX, MY, SP, HK, JE)	
L2	1-408-425-00	INDUCTOR 220uH (AEP, UK, EE, CIS)	
L3	1-410-470-11	INDUCTOR 10uH	
L4	1-410-509-11	INDUCTOR 10uH	
L5	1-410-397-21	FERRITE BEAD INDUCTOR	
L6	1-410-397-21	FERRITE BEAD INDUCTOR	
L7	1-410-397-21	FERRITE BEAD INDUCTOR	
L8	1-408-397-00	INDUCTOR 1uH (AEP, UK, G, IT)	
L9	1-410-509-11	INDUCTOR 10uH (CIS)	
L101-107	1-410-397-21	FERRITE BEAD INDUCTOR (AEP, UK, G, IT, EE, CIS, JE)	
L201-208	1-408-421-00	INDUCTOR 100uH	
		< FILTER >	
LPF1	1-239-597-11	FILTER, LOW PASS	
LPF2	1-239-597-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q3	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP, UK, EE, CIS)	
Q4	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP, UK, EE, CIS)	
Q5	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, EE, CIS)	
Q6	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, EE, CIS)	
Q7	8-729-620-05	TRANSISTOR 2SC2603-EF (AEP, UK, EE, CIS)	
Q8	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, EE, CIS)	
Q9	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q10	8-729-230-99	TRANSISTOR 2SC2669-OY	
Q55	8-729-422-57	TRANSISTOR UN4111 (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)	
Q55	8-729-900-61	TRANSISTOR DTA114ES (AEP:Made in France, G, IT)	
Q121	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q122	8-729-209-15	TRANSISTOR 2SD2012	

Ref. No.	Part No.	Description	Remark
Q123	8-729-900-80	TRANSISTOR DTC114ES	
Q131	8-729-620-05	TRANSISTOR 2SC2603-EF (CIS)	
Q136	8-729-900-61	TRANSISTOR DTA114ES (CIS)	
Q137	8-729-900-61	TRANSISTOR DTA114ES (CIS)	
Q141	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q201	8-729-900-80	TRANSISTOR DTC114ES	
Q271	8-729-422-57	TRANSISTOR UN4111 (AEP:Made in Japan, AUS, EA, MX, MY, SP, HK, E, EE, JE, CIS)	
Q271	8-729-900-61	TRANSISTOR DTA114ES (AEP:Made in France, UK, G, IT)	
Q272	8-729-900-80	TRANSISTOR DTC114ES	
Q281	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< RESISTOR >	
R1	1-249-411-11	CARBON 330 5% 1/4W	
R2	1-249-411-11	CARBON 330 5% 1/4W	
R3	1-249-409-11	CARBON 220 5% 1/4W	
⚠R4	1-249-402-11	CARBON 56 5% 1/4W	F
R5	1-249-411-11	CARBON 330 5% 1/4W	
R6	1-249-411-11	CARBON 330 5% 1/4W	
R7	1-249-432-11	CARBON 18K 5% 1/4W	
R8	1-249-432-11	CARBON 18K 5% 1/4W	
R11	1-249-411-11	CARBON 330 5% 1/4W	
R12	1-249-429-11	CARBON 10K 5% 1/4W	
R13	1-249-442-11	CARBON 510 5% 1/4W	
⚠R14	1-249-403-11	CARBON 68 5% 1/4W	F
R15	1-249-411-11	CARBON 330 5% 1/4W	
R16	1-249-425-11	CARBON 4.7K 5% 1/4W	
R17	1-247-842-11	CARBON 3K 5% 1/4W	
R18	1-249-429-11	CARBON 10K 5% 1/4W	
R19	1-249-429-11	CARBON 10K 5% 1/4W	
R21	1-249-429-11	CARBON 10K 5% 1/4W	
R22	1-249-437-11	CARBON 47K 5% 1/4W	
R23	1-249-399-11	CARBON 33 5% 1/4W	
R24	1-249-425-11	CARBON 4.7K 5% 1/4W (AEP, UK, EE, CIS)	
R25	1-249-425-11	CARBON 4.7K 5% 1/4W (AEP, UK, EE, CIS)	
R26	1-249-429-11	CARBON 10K 5% 1/4W (AEP, UK, EE, CIS)	
R27	1-249-429-11	CARBON 10K 5% 1/4W (AEP, UK, EE)	
R28	1-249-432-11	CARBON 18K 5% 1/4W	
R29	1-249-411-11	CARBON 330 5% 1/4W (AEP, UK, G, IT, E, AUS, EA, MX, MY, SP, HK, EE, JE)	
R30	1-249-421-11	CARBON 2.2K 5% 1/4W (AEP, UK, EE, CIS)	
R31	1-247-863-91	CARBON 22K 5% 1/4W (AEP, UK, EE, CIS)	
R32	1-247-863-91	CARBON 22K 5% 1/4W (AEP, UK, EE, CIS)	
R33	1-247-903-00	CARBON 1M 5% 1/4W (AEP, UK, EE, CIS)	
R34	1-249-437-11	CARBON 47K 5% 1/4W (AEP, UK, EE, CIS)	
R35	1-249-417-11	CARBON 1K 5% 1/4W	
R36	1-249-417-11	CARBON 1K 5% 1/4W	
R37	1-249-411-11	CARBON 330 5% 1/4W	
R38	1-249-432-11	CARBON 18K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN PANEL

Ref. No.	Part No.	Description				Remark
R39	1-249-401-11	CARBON	47	5%	1/4W	
R45	1-249-425-11	CARBON	4.7K	5%	1/4W	
R46	1-249-425-11	CARBON	4.7K	5%	1/4W	
R47	1-249-437-11	CARBON	47K	5%	1/4W	(AEP, UK, EE, CIS)
R49	1-249-441-11	CARBON	100K	5%	1/4W	
R51	1-249-429-11	CARBON	10K	5%	1/4W	
R56	1-249-417-11	CARBON	1K	5%	1/4W	
R58	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R60	1-249-405-11	CARBON	100	5%	1/4W	F
R61	1-249-423-11	CARBON	3.3K	5%	1/4W	
R62	1-249-425-11	CARBON	4.7K	5%	1/4W	
R63	1-249-425-11	CARBON	4.7K	5%	1/4W	
R64	1-249-425-11	CARBON	4.7K	5%	1/4W	
R65	1-249-425-11	CARBON	4.7K	5%	1/4W	
R66	1-249-423-11	CARBON	3.3K	5%	1/4W	(AEP, UK, EE, CIS)
R67	1-247-863-91	CARBON	22K	5%	1/4W	(AEP, UK, EE, CIS)
R68	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, UK, EE, CIS)
R69	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, UK, EE, CIS)
R70	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, UK, EE, CIS)
R71	1-249-425-11	CARBON	4.7K	5%	1/4W	
R72	1-247-807-31	CARBON	100	5%	1/4W	
R73	1-249-425-11	CARBON	4.7K	5%	1/4W	(AEP, UK, EE, CIS)
R131	1-249-413-11	CARBON	470	5%	1/4W	(CIS)
R136	1-249-425-11	CARBON	4.7K	5%	1/4W	(CIS)
R137	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R141	1-249-421-11	CARBON	2.2K	5%	1/4W	
R142	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R151	1-247-741-11	CARBON	150	5%	1/2W	F
⚠R152	1-247-741-11	CARBON	150	5%	1/2W	F
⚠R153	1-247-741-11	CARBON	150	5%	1/2W	F
⚠R154	1-247-741-11	CARBON	150	5%	1/2W	F
R161	1-249-441-11	CARBON	100K	5%	1/4W	
R162	1-249-413-11	CARBON	470	5%	1/4W	
R163	1-249-413-11	CARBON	470	5%	1/4W	(AEP, UK, G, IT, E, AUS, EA, MX, MY, SP, HK, EE, JE)
R171	1-249-417-11	CARBON	1K	5%	1/4W	
R181	1-247-807-31	CARBON	100	5%	1/4W	
R191	1-249-411-11	CARBON	330	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-417-11	CARBON	1K	5%	1/4W	
R204	1-249-417-11	CARBON	1K	5%	1/4W	
R205	1-249-417-11	CARBON	1K	5%	1/4W	
R206	1-249-417-11	CARBON	1K	5%	1/4W	
R212	1-249-417-11	CARBON	1K	5%	1/4W	
R213	1-249-417-11	CARBON	1K	5%	1/4W	
R214	1-249-417-11	CARBON	1K	5%	1/4W	
R215	1-249-417-11	CARBON	1K	5%	1/4W	
R216	1-249-429-11	CARBON	10K	5%	1/4W	
R217	1-249-429-11	CARBON	10K	5%	1/4W	
R222	1-247-893-11	CARBON	390K	5%	1/4W	
R224	1-249-423-11	CARBON	3.3K	5%	1/4W	
R225	1-249-423-11	CARBON	3.3K	5%	1/4W	
R226	1-249-423-11	CARBON	3.3K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-441-11	CARBON	100K	5%	1/4W	
R229	1-247-807-31	CARBON	100	5%	1/4W	
R230	1-247-807-31	CARBON	100	5%	1/4W	
R231	1-249-425-11	CARBON	4.7K	5%	1/4W	
R271	1-249-429-11	CARBON	10K	5%	1/4W	
R281	1-249-429-11	CARBON	10K	5%	1/4W	
R282	1-249-425-11	CARBON	4.7K	5%	1/4W	
R283	1-249-393-11	CARBON	10	5%	1/4W	
R284	1-249-429-11	CARBON	10K	5%	1/4W	
R285	1-249-393-11	CARBON	10	5%	1/4W	
R301	1-249-441-11	CARBON	100K	5%	1/4W	(AEP, UK, G, IT, EE)
R302	1-249-441-11	CARBON	100K	5%	1/4W	(AEP, UK, G, IT, EE)
R303	1-249-441-11	CARBON	100K	5%	1/4W	(AEP, UK, G, IT, EE)
R304	1-249-441-11	CARBON	100K	5%	1/4W	(AEP, UK, G, IT, EE)
R305	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, UK, G, IT, EE)
R306	1-249-426-11	CARBON	5.6K	5%	1/4W	(AEP, UK, G, IT, EE)
R308	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP, UK, G, IT, EE)

< VARIABLE RESISTOR >

RV1	1-238-601-11	RES, ADJ, CARBON	22K (FM TUNING LEVEL)
RV2	1-238-600-11	RES, ADJ, CARBON	10K (AM TUNING LEVEL)

< TERMINAL >

TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)	(AEP, UK, G, IT, EE, CIS)
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)	(E, AUS, EA, MX, MY, SP, HK, JE)

< VIBRATOR >

X201	1-579-175-11	VIBRATOR, CERAMIC	(10MHz)
X202	1-567-098-41	VIBRATOR, CRYSTAL	(32.768kHz)
X301	1-579-900-21	VIBRATOR, CRYSTAL	(4.332MHz) (AEP, UK, G, IT, EE)
XT51	1-760-549-11	VIBRATOR, CRYSTAL	(4.5MHz)

****

*	A-4377-038-A	PANEL BOARD, COMPLETE			

****

< CAPACITOR >

C601	1-124-584-00	ELECT	100uF	20%	10V
C602	1-164-159-11	CERAMIC	0.1uF		50V
C603	1-124-248-00	ELECT	22uF	20%	35V
C604	1-164-159-11	CERAMIC	0.1uF		50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C605	1-162-282-31	CERAMIC	100PF	10%	50V
C606	1-162-282-31	CERAMIC	100PF	10%	50V
C607	1-162-282-31	CERAMIC	100PF	10%	50V
C608	1-162-282-31	CERAMIC	100PF	10%	50V
C609	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-162-282-31	CERAMIC	100PF	10%	50V
C611	1-162-282-31	CERAMIC	100PF	10%	50V
C612	1-162-282-31	CERAMIC	100PF	10%	50V
C613	1-162-282-31	CERAMIC	100PF	10%	50V
C614	1-162-282-31	CERAMIC	100PF	10%	50V
C615	1-162-282-31	CERAMIC	100PF	10%	50V
C616	1-162-282-31	CERAMIC	100PF	10%	50V
C617	1-162-282-31	CERAMIC	100PF	10%	50V
C618	1-162-282-31	CERAMIC	100PF	10%	50V
C619	1-162-282-31	CERAMIC	100PF	10%	50V
C620	1-162-282-31	CERAMIC	100PF	10%	50V
C622	1-162-282-31	CERAMIC	100PF	10%	50V
C623	1-162-282-31	CERAMIC	100PF	10%	50V
C624	1-162-282-31	CERAMIC	100PF	10%	50V
C625	1-136-173-00	FILM	0.47uF	5%	50V
C626	1-136-173-00	FILM	0.47uF	5%	50V
		< CONNECTOR >			
* CN601	1-568-862-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D601	8-719-812-44	LED	TLO124 (ENTER/NEXT)		
D602	8-719-812-44	LED	TLO124 (MULTI CONTROLLER)		
D603	8-719-032-87	LED	SEL5420E-TP15 (SLEEP)		
D604	8-719-812-44	LED	TLO124 (REC)		
D605	8-719-032-87	LED	SEL5420E-TP15 (DAILY)		
		< FILTER >			
FL601	1-517-368-11	INDICATOR TUBE, FLUORESCENT			
		< COIL >			
L601	1-408-421-00	INDUCTOR	100uH		
L602	1-408-421-00	INDUCTOR	100uH		
		< TRANSISTOR >			
Q601	8-729-422-57	TRANSISTOR UN4111 (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)			
Q601	8-729-900-61	TRANSISTOR DTA114ES (AEP:Made in France, UK, IT, G)			
Q602	8-729-422-57	TRANSISTOR UN4111 (AEP:Made in Japan, E, AUS, EA, MX, MY, SP, HK, EE, JE, CIS)			
Q602	8-729-900-61	TRANSISTOR DTA114ES (AEP:Made in France, UK, IT, G)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R601	1-249-413-11	CARBON	470	5%	1/4W
R602	1-249-415-11	CARBON	680	5%	1/4W
R603	1-249-417-11	CARBON	1K	5%	1/4W
R604	1-249-419-11	CARBON	1.5K	5%	1/4W
R605	1-249-421-11	CARBON	2.2K	5%	1/4W
R606	1-249-425-11	CARBON	4.7K	5%	1/4W
R607	1-249-413-11	CARBON	470	5%	1/4W
R608	1-249-415-11	CARBON	680	5%	1/4W
R609	1-249-417-11	CARBON	1K	5%	1/4W
R610	1-249-419-11	CARBON	1.5K	5%	1/4W
R611	1-249-421-11	CARBON	2.2K	5%	1/4W
R612	1-249-425-11	CARBON	4.7K	5%	1/4W
R614	1-249-409-11	CARBON	220	5%	1/4W
R615	1-249-409-11	CARBON	220	5%	1/4W
R616	1-249-411-11	CARBON	330	5%	1/4W
R617	1-249-411-11	CARBON	330	5%	1/4W
R618	1-249-411-11	CARBON	330	5%	1/4W
R620	1-247-807-31	CARBON	100	5%	1/4W
R621	1-249-417-11	CARBON	1K	5%	1/4W
R622	1-249-417-11	CARBON	1K	5%	1/4W
R623	1-249-417-11	CARBON	1K	5%	1/4W
R624	1-249-434-11	CARBON	27K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S601	1-554-303-21	SWITCH, TACTILE (MEMOREY) (AUS, E, EA, MX, MY, SP, HK, JE, CIS)			
S601	1-554-303-21	SWITCH, TACTILE (EON) (AEP, UK, G, IT, EE)			
S602	1-554-303-21	SWITCH, TACTILE (STEREO/MONO) (AUS, E, EA, MX, MY, SP, HK, JE, CIS)			
S602	1-554-303-21	SWITCH, TACTILE (PTY) (AEP, UK, G, IT, EE)			
S603	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
S604	1-554-303-21	SWITCH, TACTILE (SLEEP)			
S605	1-554-303-21	SWITCH, TACTILE (REC)			
S606	1-554-303-21	SWITCH, TACTILE (DAILY)			
S607	1-554-303-21	SWITCH, TACTILE (TIMER SET)			
S608	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)			
S609	1-554-303-21	SWITCH, TACTILE (BAND)			
S610	1-554-303-21	SWITCH, TACTILE (PRESET) (AUS, E, EA, MX, MY, SP, HK, JE, CIS)			
S610	1-554-303-21	SWITCH, TACTILE (MEMORY) (AEP, UK, G, IT, EE)			
S611	1-554-303-21	SWITCH, TACTILE (AUTO) (AUS, E, EA, MX, MY, SP, HK, JE, CIS)			
S611	1-554-303-21	SWITCH, TACTILE (TUNING MODE) (AEP, UK, G, IT, EE)			
S612	1-554-303-21	SWITCH, TACTILE (MANUAL) (AUS, E, EA, MX, MY, SP, HK, JE, CIS)			

PANEL POLAR

Ref.No.	Part No.	Description	Remark
S612	1-554-303-21	SWITCH, TACTILE (STEREO/MONO)	(AEP, UK, G, IT, EE)
S613	1-554-303-21	SWITCH, TACTILE (CHARACTOR)	
S614	1-554-303-21	SWITCH, TACTILE (CLOCK SET)	
S615	1-467-914-11	ENCODER, ROTARY (MULTI CONTROLLER)	

****

A-4369-349-A POLAR BOARD, COMPLETE (CIS)
****

< CAPACITOR >

C1701	1-162-294-31	CERAMIC	0.001uF	10%	50V (CIS)
C1702	1-130-014-00	FILM	470PF	5%	50V (CIS)
C1703	1-124-902-00	ELECT	0.47uF	20%	50V (CIS)
C1704	1-124-902-00	ELECT	0.47uF	20%	50V (CIS)
C1705	1-164-098-11	CERAMIC	0.047uF		12V (CIS)
C1706	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1707	1-162-288-31	CERAMIC	330PF	10%	50V (CIS)
C1710	1-130-471-00	MYLAR	0.001uF	5%	50V (CIS)
C1710	1-137-364-11	FILM	0.001uF	5%	50V (CIS)
C1711	1-130-471-00	MYLAR	0.001uF	5%	50V (CIS)
C1711	1-137-364-11	FILM	0.001uF	5%	50V (CIS)
C1712	1-130-736-11	FILM	0.01uF	5%	50V (CIS)
C1713	1-130-736-11	FILM	0.01uF	5%	50V (CIS)
C1714	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1715	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1716	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1719	1-124-477-11	ELECT	47uF	20%	25V (CIS)
C1720	1-162-306-11	CERAMIC	0.01uF	30%	16V (CIS)
C1723	1-162-306-11	CERAMIC	0.01uF	30%	16V (CIS)
C1724	1-162-306-11	CERAMIC	0.01uF	30%	16V (CIS)
C1725	1-124-477-11	ELECT	47uF	20%	25V (CIS)
C1726	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1727	1-124-903-11	ELECT	1uF	20%	50V (CIS)
C1728	1-104-792-51	ELECT	33uF	20%	16V (CIS)

< CONNECTOR >

* CN2	1-568-832-11	SOCKET, CONNECTOR 13P	(CIS)
* CN1701	1-568-832-11	SOCKET, CONNECTOR 13P	(CIS)

< TRIMMER >

CT1701	1-141-260-00	CAP, TRIMMER 50PF	(CIS)

< DIODE >

D1701	8-719-987-63	DIODE	1N4148M (CIS)
D1703	8-719-987-63	DIODE	1N4148M (CIS)
D1704	8-719-987-63	DIODE	1N4148M (CIS)
D1705	8-719-987-63	DIODE	1N4148M (CIS)

Ref.No.	Part No.	Description	Remark

< IC >

IC1701	8-759-063-04	IC	IR3R42 (CIS)
IC1703	8-759-140-53	IC	uPD4053BC (CIS)

< COIL >

L1701	1-409-497-11	COIL (FILTER)	(CIS)

< TRANSISTOR >

Q1701	8-729-900-61	TRANSISTOR	DTA114ES (CIS)
Q1702	8-729-900-80	TRANSISTOR	DTC114ES (CIS)
Q1704	8-729-900-80	TRANSISTOR	DTC114ES (CIS)

< RESISTOR >

R1701	1-247-863-91	CARBON	22K	5%	1/4W (CIS)
R1702	1-249-435-11	CARBON	33K	5%	1/4W (CIS)
R1703	1-249-427-11	CARBON	6.8K	5%	1/4W (CIS)
R1704	1-247-858-11	CARBON	13K	5%	1/4W (CIS)
R1705	1-249-417-11	CARBON	1K	5%	1/4W (CIS)
R1706	1-249-417-11	CARBON	1K	5%	1/4W (CIS)
R1707	1-249-441-11	CARBON	100K	5%	1/4W (CIS)
R1708	1-249-440-11	CARBON	82K	5%	1/4W (CIS)
R1709	1-249-437-11	CARBON	47K	5%	1/4W (CIS)
R1710	1-249-429-11	CARBON	10K	5%	1/4W (CIS)
R1711	1-249-429-11	CARBON	10K	5%	1/4W (CIS)
R1714	1-249-426-11	CARBON	5.6K	5%	1/4W (CIS)
R1715	1-249-426-11	CARBON	5.6K	5%	1/4W (CIS)
R1716	1-249-441-11	CARBON	100K	5%	1/4W (CIS)
R1717	1-249-441-11	CARBON	100K	5%	1/4W (CIS)
R1718	1-249-429-11	CARBON	10K	5%	1/4W (CIS)
R1719	1-249-429-11	CARBON	10K	5%	1/4W (CIS)
R1721	1-249-434-11	CARBON	27K	5%	1/4W (CIS)
R1722	1-249-441-11	CARBON	100K	5%	1/4W (CIS)

< VARIABLE RESISTOR >

RV1701	1-238-600-11	RES, ADJ, CARBON 10K (SUB CARRIER)	(CIS)
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K (VCO FREQUENCY)	(CIS)

< TEST PIN >

* TP1701	1-560-061-00	PIN, CONNECTOR 3P	(CIS)
* TP1702	1-560-061-00	PIN, CONNECTOR 3P	(CIS)

****

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		*************	
7	1-765-242-31	WIRE (FLAT TYPE) (19 CORE)	
15	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
E101	1-537-770-11	TERMINAL BOARD, GROUND	
E102	1-537-770-11	TERMINAL BOARD, GROUND	
**********			
		ACCESSORIES & PACKING MATERIALS	
		********************************	
*	4-972-591-01	CUSHION (ST) (FRONT)	(AEP:Made in France, UK, IT, G)
*	4-972-592-01	CUSHION (ST) (REAR)	(AEP:Made in France, UK, IT, G)
*	4-972-593-01	INDIVIDUAL CARTON	(AEP:Made in France, UK, IT, G)
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3×6 (S)	

9-960-074-11

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